

REMARKS

The foregoing amendments are respectfully requested prior to examination on the merits of this application. A marked up copy of the amended claims is attached.

To the extent necessary, applicants petition for an extension of time under 37 CFR 1.136. Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 612.41247X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

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6. (Amended) SMC according to ~~one of Claims 1 to 5~~ Claim 1, characterised in that the UD fibres (7) are shortened by incisions in the finished SMC to produce flowability in the fibre direction.

8. (Amended) SMC according to ~~one of the preceding claims~~ Claim 1, characterised in that a different resin matrix (2) is used for the random fibres (4) and the UD fibres (7).

9. (Amended) SMC according to ~~one of the preceding claims~~ Claim 1, characterised in that, to check the UD fibre directions, individual UD glass fibres are introduced into the matrix (2) in the direction of the UD carbon fibres (7) as contrast fibres.

10. (Amended) SMC according to ~~one of the preceding claims~~ Claim 1, characterised in that the SMC weight per unit area is less than 1000 gram/m<sup>2</sup>.

11. (Amended) SMC according to ~~one of the preceding claims~~ Claim 1, characterised in that the resin matrix (2) contains electrically conductive additives.

12. (Amended) Process for producing a fibre-reinforced SMC according to ~~one of Claims 1 to 11~~ Claim 1, characterised

- in that SMC mats with a single layer of UD fibres (7) are produced  
and

- in that a plurality of SMC mats is arranged, prior to further processing to form the component (16), with multi-axial alignment of the UD fibres (7) by building up into a stack (19).

14. (Amended) Process according to Claim 12 ~~or 13~~, characterised in that at least four UD fibre layers (7) are arranged.

16. (Amended) Process according to Claim 12 ~~or 13~~, characterised in that at

least six UD fibre layers (7) are arranged.

18. (Amended) Process according to Claim 12 ~~or 13~~, characterised in that eight UD fibre layers (7) are arranged.

20. (Amended) Process according to ~~one of Claims 12 to 19~~ Claim 12, characterised

- in that the SMC mats are cut into strips (12) and wound onto spools or reels (8),
- in that the strips (12) are cut to length and arranged in rectangular blank layers and
- in that the individual blank layers (11) are built up into a stack (19) on a rotary table (14).

23. (Amended) Process according to ~~one of the preceding claims~~ Claim 1, characterised in that the strips (12) are wound onto spools with a core diameter of greater than 200 mm and an outside diameter of greater than 500 mm.

24. (Amended) Process according to ~~one of the preceding claims~~ Claim 1, characterised in that the SMC is flowable and the blank size is always smaller than the laid out component surface.

25. (Amended) Component made of fibre-reinforced thermosets, characterised in that this component is produced from an SMC according to ~~one of Claims 1 to 24~~ Claim 1.